Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

PRE-MEASURE

"FIRST AND FINAL BILL"

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mprovements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications including all lead and lifts and as per the direction of engineer in charge						
	RCC Drain						
	Cross Road 01						
	LHS						
	Ch:0.00m to 19.50m	1	19.50	0.90	1.05	18.43	
	Ch:19.50m to 49.50m	1	30.00	0.90	1.05	28.35	
	Ch:49.50m to 63.10m	1	13.60	0.90	1.05	12.85	
	Culvert						
	Ch:63.10m to 93.10m	1	30.00	0.90	1.05	28.35	
	Ch:93.10m to 97.90m	1	4.80	0.90	1.05	4.54	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	0.90	1.05	28.35	
	Ch:30.00m to 34.80m	1	4.80	0.90	1.05	4.54	
	Road gap						
	Ch:34.80m to 41.70m	1	6.90	0.90	1.05	6.52	
	House gap						
	Ch:41.70m to 57.80m	1	16.10	0.90	1.05	15.21	
	Connecting road						
	LHS						
	Ch:0.00m to 19.40m	1	19.40	1.00	1.10	21.34	
	RHS						
	Ch:0.00m to 19.40m	1	19.40	1.00	1.10	21.34	
	Culvert						
	Ch:19.40m to 39.10m	1	19.70	1.00	1.10	21.67	
	Cross Road 02						
	LHS						
	Ch:0.00 m to 29.30m	1	29.30	0.90	1.05	27.69	
	Road gap						
	Ch:29.30m to 59.30m	1	30.00	0.90	1.05	28.35	
	Ch:59.30m to 75.30m	1	16.00	0.90	1.05	15.12	
	RR Interior Road						
	Ch:0.00m to 30.00m	1	30.00	0.90	1.05	28.35	
	Ch:30.00m to 41.00m	1	11.00	0.90	1.05	10.40	

321.40

22/5/24

24/5/24

24/5/2024

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560092

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Culvert						
	Cross Road 01						
		1	6.15	1.20	1.10	8.12	
		1	5.00	1.20	1.10	6.60	
	Connecting road					4.16	
		1.00	3.15	1.20	1.10	3.96	22.84
		1	3.00	1.20	1.10		
					Present Qty	**344.23**	**Cum**

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25/5/24

25/5/24

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	KSRB 4-1.4 : Providing and laying in position plain cement concrete of Mix 1:5:10 with OPC @ 160kgs, with 40mm and down size graded granite metal coarse aggregates @0.86cum and fine aggregtes @ 0.58cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.						
	RCC Drain						
	Cross Road 01						
	LHS						
	Ch:0.00m to 19.50m	1	19.50	0.90	0.15	2.63	
	Ch:19.50m to 49.50m	1	30.00	0.90	0.15	4.05	
	Ch:49.50m to 63.10m	1	13.60	0.90	0.15	1.84	
	Culvert						
	Ch:63.10m to 93.10m	1	30.00	0.90	0.15	4.05	
	Ch:93.10m to 97.90m	1	4.80	0.90	0.15	0.65	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00m to 34.80m	1	4.80	0.90	0.15	0.65	
	Road gap						
	Ch:34.80m to 41.70m	1	6.90	0.90	0.15	0.93	
	House gap						
	Ch:41.70m to 57.80m	1	16.10	0.90	0.15	2.17	
	Connecting road						
	LHS						
	Ch:0.00m to 19.40m	1	19.40	1.00	0.15	2.91	
	RHS						
	Ch:0.00m to 19.40m	1	19.40	1.00	0.15	2.91	
	Culvert						
	Ch:19.40m to 39.10m	1	19.70	1.00	0.15	2.96	
	Cross Road 02						
	LHS						
	Ch:0.00 m to 29.30m	1	29.30	0.90	0.15	3.96	
	Road gap						
	Ch:29.30m to 59.30m	1	30.00	0.90	0.15	4.05	
	Ch:59.30m to 75.30m	1	16.00	0.90	0.15	2.16	
	RR Interior Road						
	Ch:0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00m to 41.00m	1	11.00	0.90	0.15	1.49	
	Culvert						

28/5/24

30/5/2024

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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45.51

20/5/24

30/5/2024

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Cross Road 01						
		1	6.15	1.20	0.20	1.48	
		1	5.00	1.20	0.20	1.20	
	Connecting road						
		1	3.15	1.20	0.20	0.76	
		1	3.00	1.20	0.20	0.72	4.76
					Present Qty	**49.65**	**Cum**

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore South

Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost						
	RCC Drain						
	Raft						
	Cross Road 01						
	LHS						
	Ch:0.00m to 19.50m	1	19.50	0.90	0.15	2.63	
	Ch:19.50m to 49.50m	1	30.00	0.90	0.15	4.05	
	Ch:49.50m to 63.10m	1	13.60	0.90	0.15	1.84	
	Culvert						
	Ch:63.10m to 93.10m	1	30.00	0.90	0.15	4.05	
	Ch:93.10m to 97.90m	1	4.80	0.90	0.15	0.65	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00m to 34.80m	1	4.80	0.90	0.15	0.65	
	Road gap						
	Ch:34.80m to 41.70m	1	6.90	0.90	0.15	0.93	
	House gap						
	Ch:41.70m to 57.80m	1	16.10	0.90	0.15	2.17	
	Connecting road						
	LHS						
	Ch:0.00m to 19.40m	1	19.40	0.90	0.15	2.62	
	RHS						
	Ch:0.00m to 19.40m	1	19.40	0.90	0.15	2.62	
	Culvert						
	Ch:19.40m to 39.10m	1	19.70	0.90	0.15	2.66	
	Cross Road 02						
	LHS						
	Ch:0.00 m to 29.30m	1	29.30	0.90	0.15	3.96	
	Road gap						
	Ch:29.30m to 59.30m	1	30.00	0.90	0.15	4.05	

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36.93

15/6/24

CBR

15/6/24

Assistant Executive Engr
Sub Div

16/6/24

Contractor

Asst. Engineer

Asst.Exec.Engineer

16/6/24

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:59.30m to 75.30m	1	16.00	0.90	0.15	2.16	
	RR Interior Road						
	Ch:0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
	Ch:30.00m to 41.00m	1	11.00	0.90	0.15	1.49	
	Side Wall						
	RCC Drain						
	Cross Road 01						
	LHS						
	Ch:0.00m to 19.50m	2	19.50	0.15	0.65	3.80	
	Ch:19.50m to 49.50m	2	30.00	0.15	0.60	5.40	
	Ch:49.50m to 63.10m	2	13.60	0.15	0.60	2.45	
	Culvert						
	Ch:63.10m to 93.10m	2	30.00	0.15	0.65	5.85	
	Ch:93.10m to 97.90m	2	4.80	0.15	0.60	0.86	
	RHS						
	Ch:0.00m to 30.00m	2	30.00	0.15	0.65	5.85	
	Ch:30.00m to 34.80m	2	4.80	0.15	0.60	0.86	
	Road gap						
	Ch:34.80m to 41.70m	2	6.90	0.15	0.60	1.24	
	House gap						
	Ch:41.70m to 57.80m	2	16.10	0.15	0.60	2.90	
	Connecting road						
	LHS						
	Ch:0.00m to 19.40m	2	19.40	0.15	0.65	3.78	
	RHS						
	Ch:0.00m to 19.40m	2	19.40	0.15	0.60	3.49	
	Culvert						
	Ch:19.40m to 39.10m	2	19.70	0.15	0.65	3.84	
	Cross Road 02						
	LHS						
	Ch:0.00 m to 29.30m	2	29.30	0.15	0.65	5.71	
	Road gap						
	Ch:29.30m to 59.30m	2	30.00	0.15	0.60	5.40	
	Ch:59.30m to 75.30m	2	16.00	0.15	0.65	3.12	
	RR Interior Road						
	Ch:0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
	Ch:30.00m to 41.00m	2	11.00	0.15	0.65	2.15	
	Culvert						
	Raft						
	Cross Road 01						
		1	6.15	1.20	0.23	1.70	
		1	5.00	1.20	0.23	1.38	
	Connecting road					73.85	

Contractor

Asst. Engineer

Asst. Exec. Engineer

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	3.15	1.20	0.23	0.87	
		1	3.00	1.20	0.23	0.83	
	Side Wall						
	Cross Road 01						
		2	6.15	0.23	0.60	1.70	
		2	5.00	0.23	0.55	1.27	
	Connecting road						
		2	3.15	0.23	0.60	0.87	
		2	3.00	0.23	0.65	0.90	
					Present Qty	**116.23**	**Cum**
					Upto 125%	**98.18**	**Cum**
					Above 125%	**18.05**	**Cum**

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Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.						
	RCC Drain						
	Cross Road 01						
	LHS						
	Ch:0.00m to 19.50m	4	19.50		0.65	50.70	
	Ch:19.50m to 49.50m	4	30.00		0.60	72.00	
	Ch:49.50m to 63.10m	4	13.60		0.60	32.64	
	Culvert						
	Ch:63.10m to 93.10m	4	30.00		0.65	78.00	
	Ch:93.10m to 97.90m	4	4.80		0.60	11.52	
	RHS						
	Ch:0.00m to 30.00m	4	30.00		0.65	78.00	
	Ch:30.00m to 34.80m	4	4.80		0.60	11.52	
	Road gap						
	Ch:34.80m to 41.70m	4	6.90		0.60	16.56	
	House gap						
	Ch:41.70m to 57.80m	4	16.10		0.60	38.64	
	Connecting road						
	LHS						
	Ch:0.00m to 19.40m	4	19.40		0.65	50.44	
	RHS						
	Ch:0.00m to 19.40m	4	19.40		0.60	46.56	
	Culvert						
	Ch:19.40m to 39.10m	4	19.70		0.65	51.22	
	Cross Road 02						
	LHS						
	Ch:0.00 m to 29.30m	4	29.30		0.65	76.18	
	Road gap						
	Ch:29.30m to 59.30m	4	30.00		0.60	72.00	
	Ch:59.30m to 75.30m	4	16.00		0.65	41.60	
	RR Interior Road						
	Ch:0.00m to 30.00m	4	30.00		0.60	72.00	
	Ch:30.00m to 41.00m	4	11.00		0.65	28.60	
	Culvert						
	Cross Road 01					828.18	

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Contractor

Asst. Engineer

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		4	6.15		0.60	14.76	
		4	5.00		0.55	11.00	
	Connecting road						
		4	3.15		0.60	7.56	
		4	3.00		0.65	7.80	
					Present Qty	**869.30**	**Sqm**

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Contractor

Scanned by CamScanner

Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications including all lead and lifts and as per the direction of engineer in charge						
	C.C Drain						
	Cross Road 01						
	LHS						
	Total Drain Length=97.90m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=784	784	2.05		0.61	980.39	
	No of distrubution Bars=14	14	97.90		0.61	836.07	
	RHS						
	Total Drain Length=57.80m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=463	463	2.05		0.61	578.98	
	No of distrubution Bars=14	14	57.80		0.61	493.61	
	Connecting Road						
	LHS from temple						
	Total Drain Length=19.40m						
	Main Bar 10mm dia @125mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @140mm c/c						
	d=0.61kg/m						
	No of U Bars=156	156	2.05		0.61	195.08	
	No of distrubution Bars=14	14	19.40		0.61	165.68	
	RHS						
	Total Drain Length=39.10m						
	Main Bar 10mm dia @125mm c/c						

3249.81

Contractor

Asst. Engineer

Asst. Exec.Engineer

Assistant Executive Engineer

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
=0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
d=0.61kg/m						
No of U Bars=313	313	2.05		0.61	391.41	
No of distrubution Bars=14	14	39.10		0.61	333.91	
2nd Cross Road						
LHS						
Total Drain Length=75.30m						
Main Bar 10mm dia @125mm c/c						
d=0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
d=0.61kg/m				0.61	754.05	
No of U Bars=603	603	2.05		0.61	643.06	
No of distrubution Bars=14	14	75.30				
RR Interior Road						
LHS						
Total Drain Length=41.00m						
Main Bar 10mm dia @125mm c/c						
d=0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
d=0.61kg/m				0.61	400.16	
No of U Bars=328	328	2.00		0.61	350.14	
No of distrubution Bars=14	14	41.00				
Culvert						
Total Drain Length=17.30m						
Main Bar 12mm dia @140mm c/c						
d=0.89kg/m						
Distrubution Bar 10mm dia @180mm c/c						
d=0.61kg/m				0.89	573.87	
No of U Bars=248	248	2.60		0.61	274.38	3720.78
No of distrubution Bars=26	26	17.30			6970.79	
				Present Qty	**6.97**	**Tn**
				Upto 125%	**6.19**	**Tn**
				Above 125%	**0.78**	**Tn**

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Asst. Engineer

Asst. Exec. Engineer

Contractor

Scanned by CamScanner

Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.						
	RCC Drain						
	Cross Road 01						
	LHS						
	Ch:0.00m to 19.50m	1	19.50	0.90	1.05	18.43	
	Ch:19.50m to 49.50m	1	30.00	0.90	1.05	28.35	
	Ch:49.50m to 63.10m	1	13.60	0.90	1.05	12.85	
	Culvert						
	Ch:63.10m to 93.10m	1	30.00	0.90	1.05	28.35	
	Ch:93.10m to 97.90m	1	4.80	0.90	1.05	4.54	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	0.90	1.05	28.35	
	Ch:30.00m to 34.80m	1	4.80	0.90	1.05	4.54	
	Road gap						
	Ch:34.80m to 41.70m	1	6.90	0.90	1.05	6.52	
	House gap						
	Ch:41.70m to 57.80m	1	16.10	0.90	1.05	15.21	
	Connecting road						
	LHS						
	Ch:0.00m to 19.40m	1	19.40	1.00	1.10	21.34	
	RHS						
	Ch:0.00m to 19.40m	1	19.40	1.00	1.10	21.34	
	Culvert						
	Ch:19.40m to 39.10m	1	19.70	1.00	1.10	21.67	
	Cross Road 02						
	LHS						
	Ch:0.00 m to 29.30m	1	29.30	0.90	1.05	27.69	
	Road gap						
	Ch:29.30m to 59.30m	1	30.00	0.90	1.05	28.35	
	Ch:59.30m to 75.30m	1	16.00	0.90	1.05	15.12	
	RR Interior Road						
	Ch:0.00m to 30.00m	1	30.00	0.90	1.05	28.35	
	Ch:30.00m to 41.00m	1	11.00	0.90	1.05	10.40	
	Culvert					321.40	
	Cross Road 01						

10/7/24

12/7/24

Assistant Executive Engi

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	6.15	1.20	1.10	8.12	
		1	5.00	1.20	1.10	6.60	
	Connecting road	1.00	3.15	1.20	1.10	4.16	
		1	3.00	1.20	1.10	3.96	
					Present Qty	**344.23**	**Cum**

344.84

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12/3/24

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-5

rd

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